J020996

# National Wildlife Health Center

...advancing wildlife and ecosystem health for a better tomorrow

## **USGS National Wildlife Health Center Quarterly Wildlife Mortality Report** January 2009 to March 2009

Reported State	Location	Dates	Species	Mortality	Diagnosis	Reported By
AK	Fairbanks North, Star County	02/12/09- 02/13/09	Common Redpoll	8	Trauma	NW
AL	Anniston, Calhoun County	03/13/09- 04/06/09	Pine Siskin	8	Salmonellosis	NW
ANT	Coronation Island, South Orkney Islands	01/01/09- 02/04/09	Adelie Penguin	5 (e)	Starvation	NW '
AZ	Freestone District Park, Maricopa County	02/16/09- 03/15/09	Unidentified Cormorant, Mallard, Unidentified Egret, Great Blue Heron	15	Undetermined	: NW ,
CA '	Kern NWR	01/11/09- 02/05/09	American Coot, Ruddy Duck, Northern Shoveler, Redhead Duck, Gadwall, American Wigeon, Ring-billed Gull, Ring- necked Duck, Northern Pintail	450 (e)	Avian cholera	. ! ! ! !
CA	Bay Delta, San Joaquin County	01/20/09- 01/24/09	Tundra Swan	50 (e)	Avian cholera suspect	NON
, CA	Los Angeles County	12/18/08- 01/15/09	California Brown Pelican	400 (e)	Emaciation	CAF, NW

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: CA	Tule Lake NWR	03/07/09- 04/22/09	Ross' Goose, Lesser Snow Goose, Cackling Goose	1,922	Avian cholera	NW .
CA	Van Damme State Park	01/29/09- 3/28/09	Bullfrog	18	Undetermined	NW
CL	Caleta Queule	03/28/09- 03/31/09	Magellanic Penguin	1,380	Entanglement: Fishing Line	ОТ
СТ	Town of Cheshire, New Haven County	02/07/09-	Canada Goose	7	Aspergillosis	UCT
ст	Hartford County, Litchfield County	01/27/09-5/30/09	Little Brown Bat, Eastern Pipistrelle, Northern Long-eared Bat	100 (e)	Fungal Infection: White-Nose Syndrome	NW
FL	Duval and Brevard Counties	01/01/09- 4/30/09	Loggerhead Sea Turtle, Green Sea Turtle	200 (e)	Open	UFL
FL	Lake Lena and Spirit Lake, Polk County	02/25/09- 02/25/09	Laughing Gull, Ring- billed Gull	25 (e)	Enteritis: hemorrhagic	FL, NW
FL	Broward County	02/10/09-	Unidentified Egret, Unidentified Duck	21 (e)	Botulism suspect	NON
FL:	Rotenberger WMA	02/27/09-	Double- crested Cormorant, Roseate Spoonbill, Great Blue Heron	14	Electrocution	NFL
GA	Multiple Counties	03/08/09- 05/21/09	American GoldfinchPine Siskin, Northern Cardinal, House Finch	45 (e)	Salmonellosis	SCW
IL	Bellrose Waterfowl Reserve, Pulaski County	01/08/09- 01/16/09	Lesser Snow Goose, Northern Shoveler	25 (e) ·	Avian cholera	NW

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IL	Waukegan Harbor, Lake County	03/04/09- 03/05/09	Lesser Scaup, American Coot, Bufflehead	6	Open: emaciation	NW .
KS	Neosho Wildlife Area	02/01/09- 02/03/09	Green- winged Teal, Mallard	70 (e)	Open	NW
KS	Russell Springs, Logan County	01/04/09- 01/06/09	Wild Turkey, Badger, Racoon	50 (e)	Toxicosis: zinc phosphide, Toxicosis: Chlorophocinone	SCW, UCD
LA	Acadia County	01/13/09- 01/19/09	Brown- headed Cowbird, Red-winged Blackbird	150 (e)	Undetermined	NCA, NW
LA	Natchitoches County	01/08/09- 01/12/09	Lesser Snow Goose, Ross' Goose	240 (e)	Hepatic lipidosis	· NW
МА	Hampden County, Norfolk County, Middlesex County	02/02/09- 5/30/09	Little Brown Bat, Northern Long-eared Bat, Eastern Pipistrelle	900 (e)	Fungal Infection: White-Nose Syndrome suspect	NON
MD	Deep Creek Lake State Park, Garrett County	02/19/09- 04/12/09	Pine Siskin	200 (e)	Salmonellosis	. NW
ME	Leeds, Androscoggin County	01/25/09- 01/25/09	Mallard	12	Trauma: impact	NW
ME	Multiple counties	02/15/09- 05/04/09	Pine Siskin, Common Redpoll	100 (e)	Salmonellosis suspect	NON
MI	Ann Arbor	12/26/08- 02/15/09	American Crow	25 (e)	Open	MSU
MI	Multiple counties	02/14/09- 04/15/09	Pine Siskin, Common Redpoll, American Goldfinch, Northern Cardinal, American Tree Sparrow	300 (e)	Salmonellosis	! MI
MN	Fergus Falls, Wright	10/01/08-	Trumpeter	40 (e)	Lead poisoning,	MNS

		County	02/01/09	Swan		Emaciation, Trauma	
	МО	Osage City, Cole County	02/04/09- 02/07/09	European Starling	50 (e)	Gout: visceral, Toxicosis suspect	NW
i ·	MT	Choteau, Teton County	12/26/08- 01/15/09	Mallard	90 (e)	Undetermined	NW
	NC	Cape Hatteras, National Seashore	12/25/08- 02/10/09	Hooded Merganser, Bufflehead	80 (e)	Emaciation, Trauma	NW
· · · · · · · · · · · · · · · · · · ·	NC	Caldwell and Moore Counties	02/15/09- 4/30/09	American Goldfinch, Pine Siskin	95 (e)	Salmonellosis	NW, SCW
	NE	Multiple Counties	02/24/09- 03/15/09	Green- winged Teal, American Coot, Greater White- fronted Goose, Ross' Goose, American Wigeon, Canada Goose, Mallard, Lesser Snow Goose, Northern Pintail	350 (e)	Avian cholera	NW
: : !	NE	Lake Ogallala, Keith County	02/03/09-	Common Merganser, Unidentified Goldeneye	31 (e)	Trauma: impact	NW
	NH	Merrimack and Grafton Counties	02/20/09- 5/30/09	Little Brown Bat, Northern Long-eared Bat	3	Fungal Infection: White-Nose Syndrome	NW
:	NV	Washoe County	11/15/08- 01/05/09	Northern Leopard Frog	6	Fungal Infection: chytrid	NW
	NY	Hudson River, Multiple Counties	01/06/09- 03/11/09	American Crow	58	Viral Infection: Reo virus-like CPE, Enteritis: hemorrhagic, Airsacculitis, Parasitism	NW, NY
		Ulster County,		Big Brown			

NY	Washington County, Putnam County, Clinton County, Essex County	01/27/09- 5/30/09	Bat, Indiana Bat, Eastern Pipistrelle, Little Brown Bat	4,450 (e)	Fungal Infection: White-Nose Syndrome	. NW	f
NY	Multiple counties	03/06/09- 04/15/09	Pine Siskin, House Sparrow	15 (e)	Salmonellosis	NY	į
ОН	West Salem, Wayne County	03/22/09- 03/24/09	European Starling	19	Trauma	NW	4
ОН	Green Township, Mahoning County	03/23/09- 03/25/09	American Robin	10 (e)	Trauma	NW	i
ОК	Cleo Springs, Major County		Lesser Sandhill Crane	160 (e)	Mycotoxicosis suspect	NW	
ок	Hackberry Flat WMA, Tillman County	01/19/09- 02/04/09	Ross' Goose	100 (e)	Avian cholera	, NW	
PA	Blair County	02/26/09- 02/26/09	Canada Goose	54	Trauma: weather suspect	PA	į
SD	Kyle, Jackson County	03/31/09- 4/1/09	Porcupine	10	Trauma suspect	, NW	
SD	Lacreek NWR, Bennett County	03/09/09- 03/20/09	Mink, Beaver	4	Tularemia	NW	 
TN	Multiple counties	02/09/09- 03/31/09	American Goldfinch, Purple Finch, Pine Siskin	50 (e)	Salmonellosis	SCW	i
тх	Aransas NWR	01/14/09- 4/30/09	Whooping Crane	23 (e)	Emaciation, Predation, Viral Infection suspect	NW	1
TX ·	Corpus Christi Ship Channel, Nueces County	01/15/09- 04/03/09	Eastern Brown Pelican	31 (e)	Emaciation, Parasitism: coccidiosis	NW	
VA	Floyd County	02/01/09- 03/31/09	American Goldfinch	100 (e)	Salmonellosis suspect	NON	•
			Eastern				

<b>VA</b>	Bath and Giles Counties	02/15/09- 5/30/09	Pipistrelle, Little Brown Bat	26	Fungal Infection: White-Nose Syndrome	NW
VA	Richmond County	01/12/09	Ring-billed Gull, Laughing Gull, Herring Gull, Unidentified Black-backed Gull	70 (e)	Clostridium perfringens suspect	SCW
VT	Orange County, Windsor County, Rutland County, Washington County, Windham County	:01/30/09-	Northern Long-eared Bat, Little Brown Bat	350,000 (e)	Fungal Infection: White-Nose Syndrome	NW
VT	Multiple counties	02/09/09-	Pine Siskin, American Goldfinch	35 (e)	Salmonellosis	NW
WA	Thurston County	01/16/09-02/01/09	Pine Siskin, Unidentified Finch	70 (e)	Salmonellosis	NW
WA	Wapato Lake, Pierce County	02/02/09- 02/04/09	Common Merganser, Mallard	8	Open	NW
WI	Multiple Counties	02/20/09- 5/18/09	Pine Siskin, American Goldfinch, Purple Finch, Common Redpoll, House Finch, Northern Cardinal, Black-capped Chickadee	270 (e)	Salmonellosis	WI
WI	Upper Mississippi River NWR	03/23/09- 5/19/09	Lesser Scaup, Ring- necked Duck, American Coot, Canvasback, Bufflehead	1500 (e)	Parasitism: Sphaeridiotrema globulus, Parasitism: Cyathocotyle bushiensis	NW
WI	Lake Michigan,	03/05/09-	Unidentified Goldeneye,	100 (e)	Emaciation	WI

	Multiple Counties	03/31/09	Unidentified Scaup			i
WV	Multiple Counties	02/12/09- 4/22/09	Pine Siskin, American Goldfinch, Purple Finch	30 (e)	Salmonellosis	NW, SCW
WV	Hamilton and Trout Caves, Pendleton County	01/24/09- 5/19/09	Eastern Pipistrelle, Northern Long-eared Bat, Little Brown Bat	50 (e)	Fungal Infection: White-Nose Syndrome	NW, SCW

### **Updates and Corrections:**

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Reported State	Location	Dates	Species	Mortality	Diagnosis	Reported By	
AZ	Maricopa County	10/01/08- 12/15/08	Northern Flicker, Mourning Dove	26	Undetermined, Toxicosis suspect	NW .	
NY	Suffolk County	06/24/08- 09/12/08	Southern Leopard Frog, Unidentified Fish, Bullfrog	165	Perkinsus-like Organism, Fungal Infection: Chytrid Suspect	NW i	
MD	Montgomery County	11/01/08- 12/31/08	Eastern Box Turtle	6	Viral Infection: Ranavirus, Viral Infection: Ranavirus suspect	NW I	
MI	Delta, Emmett, Mason, Oceana, and Schoolcraft Counties	06/27/08- 11/18/08	Ring-billed Gull, Double- crested Cormorant, Horned Grebe, Red- necked Grebe, Common Loon, Herring Gull, White- winged Scoter, Mallard Ring-billed Gull, Double- crested Cormorant,	135 (e) <sup>'</sup>	Botulism type E	MI 1	



MI	Sleeping Bear Dunes National Seashore	06/30/08- 11/29/08	Common Loon, Herring Gull, Caspian Tern, Least Sandpiper, Common Merganser	104 (e)	Botulism type E	NW, OT
PA	Presque Isle State Park	11/25/08	Ring-billed Gull, American Crow, Common Loon, Great Blue Heron, Herring Gull, Unidentified Waterfowl	364 (e)	Botulism type C, Botulism type E, Trauma, Aspergillosis	NW
WY	Yellowstone National Park	05/01/08- 10/01/08	Timber (Gray) Wolf	45 (e)	Distemper, Sarcoptic Mange	NON

<sup>(</sup>e) = estimate, "suspect" = Diagnosis is not finalized, but field signs and historic patterns indicate the disease.

California Animal Health Food Safety Lab Network (CAF), Florida Fish and Wildlife Conservation Commission (FL), Michigan Department of Natural Resources (MI), Minnesota Department of Natural Resources (MNS), Michigan State University (MSU), North Carolina State Lab (NCA), Ashland National Forensics Laboratory (NFL), No diagnostics pursued (NON), USGS National Wildlife Health Center (NW), NY State Department, DEC, Division of Fish, Wildlife & Marine Resources (NY), Other (OT), Pennsylvania Animal Diagnostic Lab (PA), Southeastern Cooperative Wildlife Disease Study (SCW), UC Davis (UCD), University of Connecticut Wildlife Laboratory (UCT), University of Florida (UFL), Wisconsin Department of Natural Resources Wildlife Health Lab (WI)

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Eastern	 	 

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#### **Quarterly Mortality Reports**

#### Avian cholera in waterfowl in California and Nationwide (CA)

Tulelake and Lower Klamath National Wildlife Refuges experienced substantial mortality from avian cholera this spring. U.S. Fish and Wildlife Service refuge managers reported nearly 2000 dead birds were collected as part of their disease control operations. Snow geese and Ross' geese comprised 90% of the birds collected. The mortality event began in early March and subsided in mid to late April. Avian cholera events are annual events at the refuges. The mortality totals in 2009 were less that those in 2008 that lasted two and a half months with mortality estimated at 4500 birds. Cold weather conditions contribute to avian cholera outbreaks by concentrating birds in certain migration stopover locations. Prompt collection and disposal of carcasses removes the causative bacteria, Pasturella multocida, from the environment. Additional avian cholera outbreaks in early 2009 totaling several hundred birds occurred at Kern and Butte Sink NWR, both in California. Lesser outbreaks were documented in the Mississippi and Central Flyways at Bellrose Waterfowl Reserve, IL; Hackberry Flat Wildlife Management Area, OK; and Rainwater Basin Wetland Management District, NE.

# Avian salmonellosis mortality confirmed in numerous states (WA, MN, WI, AL, GA, TN, NC, VA, WV, MD, VT, ID)

Recent outbreaks of avian salmonellosis (Salmonella typhimurium) have been confirmed in wild birds across several states since January 2009. Suspected salmonellosis mortality also was reported from CA, UT, ME, and PA. Concerned citizens across the country have reported finding dead or distressed wild birds near their homes and bird feeders. Public concern most likely is heightened due to the recent Salmonella cases in humans and numerous product recalls. There currently is no evidence that the strains found in dead wild birds this year are the same strains of Salmonella that prompted the recalls in peanuts, pistachios, or wild bird seed. Large-scale mortalities of passerines using feeding stations are common across the United States and often occur during times of increased supplemental feeding, such as winter and spring. Smaller outbreaks of salmonellosis are reported yearly, but there is no indication that this year's mortality estimates are higher than previous years.

#### Magellanic penguin mortality in Chile

In a report from Chile, an estimated 1380 Magellanic penguins (Spheniscus magellanicus, Forster, 1781) died and were washed up on The Pines section of beach in Queule in late March. Specimens were collected and examined at the Southern University of Chile in Valdivia. Most of the examined birds had abundant fat, and some were found to have eaten sardines. There were histological lesions consistent with asphyxia and organ congestion. There was no indication of viruses or toxicants, but several specimens had a necrotic hepatitis similar to avian cholera. There was a fleet of fishing vessels off the coast using floating nets for anchovy and sardines; some fishermen admitted penguins were caught in the nets. Official speculate that the number dead could be twice as high due to carcasses floating at sea. Magellanic penguins migrate north with juveniles following the sardines. There were mortality events between 1991-1996 involving Humboldt penguins caught in fishing nets off the coast of Chile. Investigators suggested future management actions should include creation of an emergency group to respond to future mortality events in birds, mammals, and fish, as well as a coordinating entity between state, federal, and university resources. Information provided by Dr. Roberto Schlatter, Southern University of Chile.

#### Research progress on White-nose syndrome of bats

Scientists are fervently working to uncover the mystery of bat white-nose syndrome (WNS), an emerging disease, that is responsible for the loss of nearly half million insectivorous bats of 5 species in the eastern United States. Little brown bats and eastern pipistrelles have been particularly hard hit with as many as 90-100% of the population wiped out at some winter hibernacula. State, federal, academic, and non-profit organizations have partnered to

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investigate the disease, its impact on bat populations, and management options. Infection and transmission trials investigating the fungus, now known as Geomyces destructans, as the primary cause of WNS have been carried out at the NWHC. Other studies in which the NWHC are involved include soil sample surveys to determine G. destructans distribution relative to affected hibernacula, summer bat surveys for evidence of latent infections, and evaluation of possible treatment or control options. Concern about possible human-vectored transmission caused the USFWS to issue cave closure recommendations to reduce the risk and speed of disease spread to sites in the Midwest where much larger winter hibernacula occur.

Request for Wildlife Mortality and Morbidity Event Reporting (All States)

The Quarterly Wildlife Mortality Report, published in the Wildlife Disease Association's newsletter, is intended to inform wildlife professionals of wildlife events of interest. The authors kindly request that investigation reports of recent die-offs of mammals, birds, amphibians, and reptiles be submitted for inclusion in the publication and on the related website (<a href="http://www.nwhc.usgs.gov/mortality\_events/ongoing.jsp">http://www.nwhc.usgs.gov/mortality\_events/ongoing.jsp</a>). Credit will be given to appropriate diagnostic laboratories.

The Quarterly Mortality Report represents the most current information available to the USGS National Wildlife Health Center at the time of publication. We encourage researchers to contact us to acquire data directly. External request forms for mortality information can be obtained from Jennifer Bradsby at 608-270-2443 or email: jbradsby@usgs.gov.

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